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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/534,521	05/11/2005	Dong-Hyun Seo	673-27 PCT/US	5082	
R Glenn Schro	7590 03/08/2007 neder	EXAMINER			
Hoffmann & Baron			MAYO, TARA L		
6900 Jericho T Syosset, NY 1		ART UNIT	PAPER NUMBER		
<i>5</i> , 5555, 111.	• • • • • • • • • • • • • • • • • • • •		3671		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
21 DAVS		03/08/2007	DADED		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicatio	Application No. Applicant(s)						
Office Action Summary		10/534,52	1	SEO ET AL.					
		Examiner		Art Unit					
		Tara L. Ma		3671					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D asions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THE 136(a). In no ever I will apply and will te, cause the appli	IS COMMUNICATION nt, however, may a reply be tim expire SIX (6) MONTHS from cation to become ABANDONEI	I. tely filed the mailing date of this c (35 U.S.C. § 133).					
Status					-				
1)⊠	Responsive to communication(s) filed on 05/1	11/05							
	This action is FINAL . 2b) ☐ This action is non-final.								
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	·							
4)⊠	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
•	Si) Claim(s) is/are rejected.								
									
8)⊠	Claim(s) 1-18 are subject to restriction and/or	election requ	uirement.						
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)		5) Notice of Informal P						
Paper No(s)/Mail Date 6) Other:									

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 2 and 9, drawn to a method of constructing a three arch tunnel and a three arch excavated tunnel.

Group II, claim(s) 3 through 5 and 7, drawn to a method of constructing a wall using an iron mold and an iron mold apparatus

Group III, claim(s) 6 and 8, drawn to a method of constructing a wall using a wire netting frame and a wire netting frame apparatus.

Group IV, claim(s) 10 through 17, drawn to a method of constructing a wall using an upper fixed wall portion.

Group V, claim(s) 18, drawn to a method of constructing a wall by blasting.

2. The inventions listed as Groups I, II, III, IV and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The method and apparatus of the claims in Group I share the inventive concept of an excavated three arch tunnel.

The method and apparatus of the claims in Group II share the inventive concept of an iron mold.

The method and apparatus of the claims in Group II share the inventive concept of a wire netting frame.

The method of the claims in Group IV share the inventive concept of a wall formed with an upper fixed portion.

The method of the claim in Group V relates to the inventive concept of a wall formed by blasting.

3. A telephone call was made to R. Glenn Schroeder on 28 February 2007 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and

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specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tara L. Mayo whose telephone number is 571-272-6992. The examiner can normally be reached on Monday through Friday 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will can be reached on 571-272-6998. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

tlm

01 March 2007

PATENT EXAMINER